Telit

LM960A18
Gigabit LTE mPCIE

LTE 1.2/150 I DC-HSPA+ 42.0/5.76   mPCIe

50.95 mm

30 mm

2.7 mm
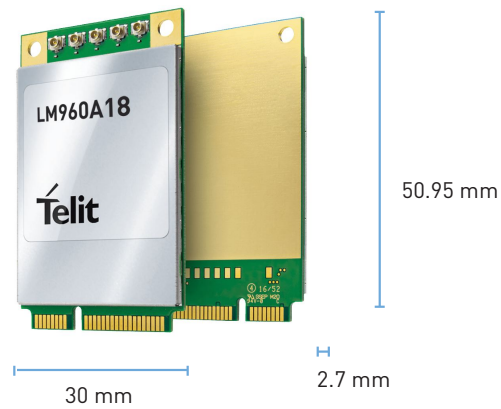
Gigabit LTE Data Card

The LM960A18 Mini PCI-Express (mPCIe) data card delivers high-speed data rates via LTE Advanced Pro (LTE-A Pro) and offers a cellular connection for products in network appliance environments. This data card is well suited for products that demand high throughput to provide the most advanced 4G LTE connectivity, ensuring a rich and seamless user experience.

Based on LTE Category 18 (Cat 18), the LM960A18 mPCIe data card achieves download rates up to 1.2 Gbps with 4x4 MIMO +3 CA and 1 GBPS with 2x2 MIMO +5 CA. This product supports multiple RF bands and band combinations to accommodate global deployments.

Key Benefits

- Standard mPCIe data card form factor
- LTE Cat 18: Exceptional high speed with data rates of up to 1.2 Gbps download and 150 Mbps upload
- Support of UL at 2xCA and up to 5xCA on DL with 4x4 MIMO, 256QAM
- Ample LTE frequency band support
- Up to four independent firmware images selectable at boot to support different network operator requirements
- 3G fallback technology
- Private LTE support (including CBRS/OnGo)

AVAILABLE

EMEA

NORTH AMERICA

APAC

Complete,
Ready-to-Use Access
to the Internet of Things

IoT Modules   Connectivity Plans   Software & Platforms

Connecting the world
from the **inside out**

LM960A18

Key Specifications

- Form Factor: mini-PCI express card type (mPCIe) revision 2.1
- Chipset: Qualcomm SDX20

Modem Specifications

- Data only module
- LTE Cat. 18 3GPP Rel. 12
  - Up to 1.2 Gbps DL w/4x4 MIMO +3 CA

RF Bands

- LTE FDD: B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(B17), B13, B14(FirstNet), B20, B28, B29, B30, B32, B71
- LTE TDD: B38, B39, B40, B41, B42, B43, B46, B48 (CBRS/OnGo)
- 3G B1, B2, B4, B5(B19), B8, B9

Other Key Features

- 4x4 MIMO on two contiguous carriers plus 2x2 MIMO on third carrier
- LAA up to 60 MHz
- UL 2xCA
- DL 5xCA
- USB drivers for Windows 7, 8.x, 10 and Linux (Kernel 4.10)
- Full GNSS support: GPS, GLONASS, Galileo, Beidou

Temperature Range

- Operating: -40 °C to +85 °C
- Storage: -40 °C to +85 °C

Operating Voltage

- 3.1V - 3.6V (Typical 3.3V)

Dimensions

- 50.95 x 30 x 2.8mm

Approvals

- FCC/IC, PTCRB 9 (North America)
- FCC Part 96 CBRS (USA)
- CE, GCF (Europe)
- AU IC-Tick (Australia)
- Network carriers: AT&T, Telstra*, NTT Docomo**, T-Mobile US, Verizon

  *Certified as Cat 16 device
  ** Certification pending

Interfaces

- USB 2.0/3.0
- Two selectable SIM cards
- GPIOs